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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/540,535	06/24/2005	Satoru Mima	124486	3552	
25944	7590 11/25/2005		EXAMINER		
OLIFF & BERRIDGE, PLC P.O. BOX 19928			CINTINS, IVARS C		
	IA, VA 22320		ART UNIT	PAPER NUMBER	
			1724		
			DATE MAILED: 11/25/2009	DATE MAIL ED: 11/25/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/540,535	MIMA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ivars C. Cintins	1724			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/24/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

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Figure 2 of the Drawings appears to be Prior Art (see page 4, lines 23-24 of the specification), and therefore must be labeled as such (see M.P.E.P. § 608.02(g)).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 2000-263039 A. The reference discloses adding an aqueous suspension of activated carbon having the recited particle size and concentration to impure water (see lines 7 and 9 of the abstract), and this is all that is required by claims 1 and 2. The activated carbon of the reference is inherently capable of being produced by wet milling, and this is all that is required by the term "obtainable."

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2000-263039 A in view of Hatano et al. (U.S. Patent No. 6,602,816). JP 2000-263039 A discloses the claimed invention with the exception of the recited milling machine. Hatano et al. discloses adjusting the particle size of an adsorbent material (clay) by wet milling (see col. 8, lines 9-12); and it would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the milling machine of the secondary reference for the particle size reducing

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device (i.e. ultrasonic wave unit) of the primary reference, since this secondary reference milling machine is capable of reducing the size of a particulate adsorbent material in substantially the same manner as the particle size reducing of the primary reference, to produce substantially the same results.

Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2000-263039 A in view of JP 10-309567 A. JP 2000-263039 A discloses the claimed invention with the exception of the recited membrane separation treatment. JP 10-309567 A discloses a similar process for purifying water with superfine powdery activated carbon, and further teaches subjecting the activated carbon containing water to membrane separation treatment, in order to remove the activated carbon from the treated water. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the system of the primary reference with the membrane separator of the secondary reference, in order to obtain the advantages disclosed by this secondary reference for the system of the primary reference.

Claims 6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2000-263039 A and JP 10-309567 A as applied above, and further in view of Hatano et al. The modified primary reference discloses the claimed invention with the exception of the recited milling machine. Hatano et al. discloses adjusting the particle size of an adsorbent material by wet milling; and it would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the milling machine of the secondary reference for the particle size reducing device of the modified primary reference, since this milling machine is capable of reducing the size of a particulate adsorbent material in substantially the same manner as the

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particle size reducing of the modified primary reference, to produce substantially the same results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is 571-272-1155. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Duane Smith, can be reached at 571-272-1166.

The centralized facsimile number for the USPTO is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ivars C. Cintins Primary Examiner Art Unit 1724

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I. Cintins November 21, 2005